

The invention claimed is:

1. A process of installing segmented underpinning piles for supporting a structure upon the earth comprising the steps of driving a first pile segment a distance into unexcavated earth said first pile segment having an end extending out of the earth having a first cooperating element for engaging a second cooperating element on a second pile segment,

fully engaging said first and second cooperating elements to seat said second pile segment onto said first pile segment; and

driving said second pile segment another distance into the earth.

2. The process according to claim 1, further comprising the steps of removing a volume of earth from beneath a portion of the structure; positioning said first pile segment below said portion of said structure; and placing a jack between said first pile segment and said portion of said structure.

3. The process according to claim 1 wherein an adhesive is applied between said cooperating elements.

4. The process according to claim 3 wherein said adhesive comprises an epoxy.

5. The process according to claim 1 wherein one of said cooperating elements comprises an extension and the other said cooperating element comprises a depression.

6. A process of installing segmented underpinning piles for supporting a structure upon the earth comprises the steps of removing a volume of earth from beneath a portion of the structure, positioning a first pile segment below said portion of said structure, placing a jack between said first pile segment and said portion of said structure, driving a first pile segment a distance into unexcavated earth said first pile segment having an end extending out of the earth said end having a first cooperating element for engaging a second cooperating element on

a second pile segment, fully engaging said first and second cooperating elements to seat said second pile segment onto said first pile segment; and driving said second pile segment another distance into the earth.

7. An underpinning pile forming segment comprising a body defining a generally longitudinal configuration, having a first end and a second end, said first end comprising a cooperating element for engaging a cooperating element and said second end comprising a cooperating element for engaging a cooperating element.

8. An underpinning pile forming segment according to claim 7 comprising a body defining a generally longitudinal configuration, having a first end and a second end, said first end comprising a cooperating extension for engaging a cooperating depression and said second end comprising a cooperating depression for engaging a cooperating extension.

9. The underpinning pile forming segment according to claim 8 wherein said extension has a least one tab on a distal end thereof.

10. The underpinning pile forming segment according to claim 8 wherein said depression has a bottom and a least one slot extending into said depression and slot extending annularly about said bottom of said depression.

11. The underpinning pile forming segment according to claim 9 wherein said depression has a bottom and a least one slot extending into said depression and slot extending annularly about said bottom of said depression.

12. An underpinning pile forming segment according to claim 7 comprising a body defining a generally longitudinal configuration, having a first end and a second end, said first end comprising a cooperating depression for engaging a cooperating extension and said second end comprising a cooperating depression for engaging a cooperating extension.

13. An underpinning pile comprising a first segment defining a generally longitudinal configuration, having a first end and a second end, said first end comprising a cooperating extension cooperatively engaged with a cooperating depression of a second segment.